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## Green Glass for Orchestra

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Graduate Program in Music  
A thesis submitted in partial fulfillment of the requirements for the degree in Master of Music  
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GREEN GLASS

(Thesis format: Score)

by

Carolann DeYoung

Graduate Program in Music

A thesis submitted in partial fulfillment  
of the requirements for the degree of  
Master in Music Composition

The School of Graduate and Postdoctoral Studies  
The University of Western Ontario  
London, Ontario, Canada

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## Abstract

My proposed thesis work, *Green Glass*, is a single movement composition for orchestra lasting 10'30. The piece consists of three main sections and explores spectral harmonies in combination with my own pitch material.

## Keywords

Green Glass, orchestra, harmonic series

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# GREEN GLASS

For orchestra

Carolann DeYoung  
2013

Instrumentation

- 2 Flutes
- 1 Piccolo
- 1 Oboe
- 3 Clarinets in Bb
- 1 Bassoon
  
- 4 Horns in F
- 2 Trumpets in Bb
- 2 Trombones
- 1 Bass Trombone
- 1 Tuba

3 Percussion

Percussion I:  
Timpani 29" 26" 23"  
suspended cymbal to played inverted on timpani

Percussion II:  
Bass Drum  
Glockenspiel (shared with percussion III)  
Crotales, and bow

Percussion III:  
Chimes  
Glockenspiel (shared with percussion II)





Strings  
10 8 6 8 4 minimum

Duration 10'30

Performance notes

Accidentals function in the traditional manner, however cautionary accidentals are frequently indicated. Score is in C. Piccolo, and double bass are written in their usual octave transpositions. Crotales and glockenspiel sound two octaves above written.

Notation of microtones



Quarter tone sharp

Three quarter tone sharp

Quarter tone flat

Three quarter tone flat

# GREEN GLASS

Carolann DeYoung

Flute 1-2  
Piccolo  
Oboe  
Clarinet 1-2  
Clarinet 3  
Bassoon

Horn 1-2  
Horn 3-4  
Trumpet 1-2  
Trombone 1-2  
Bass Trombone  
Tuba

Timpani

Violin 1  
Violin 2  
Viola  
Violoncello  
Double Bass

Heavy, Dark

rolling on inverted sus. cym

(pitches are approximate)

senza vibrato divisi

senza vibrato unis.

senza vibrato divisi

sul pont

Carollann DeYoung

This musical score page contains measures 1 through 4 of a piece. The instrumentation includes woodwinds (Flutes 1-2, Piccolo, Oboe, Clarinets 1-2 and 3, Bassoon), brass (Horns 1-2 and 3-4, Trumpets 1-2, Trombones 1-2, Baritone/Tuba, Timpans), and strings (Violins 1-2, Viola, Violoncello, Double Bass). Measure 1 features a key signature change from one sharp to two sharps and a time signature change from common time to 3/4. Measures 2 and 3 show various melodic lines in the woodwinds and strings, with dynamic markings such as *f*, *mp*, *f*, and *p*. Measure 4 begins with a section labeled 'A' and includes performance instructions like 'sul pont.' and 'ord.'. A rehearsal mark 'A' is placed at the beginning of measure 4.

\*half of the players bow with excessive pressure, as indicated by the symbol



This musical score page contains measures 9, 10, and 11 of a symphony. The instrumentation includes Flutes 1-2, Piccolo, Oboe, Clarinets 1-2 and 3, Bassoon, Horns 1-2 and 3-4, Trumpets 1-2, Trombones 1-2, Baritone Trombone, Tuba, Timpani, Violins 1 and 2, Viola, Violoncello, and Double Bass.

**Measure 9:** Flutes 1-2, Piccolo, Oboe, and Clarinet 1-2 play a half note G4 (F#4 in the key signature). Bassoon plays a half note G2. Horns 1-2, Horns 3-4, Trumpets 1-2, Trombones 1-2, Baritone Trombone, and Tuba are silent. Timpani plays a half note G2. Violins 1 and 2 play a triplet of eighth notes (F#4, G4, A4) followed by a half note G4. Viola plays a triplet of eighth notes (F#4, G4, A4) followed by a half note G4. Violoncello and Double Bass play a triplet of eighth notes (F#4, G4, A4) followed by a half note G4.

**Measure 10:** Flutes 1-2, Piccolo, Oboe, and Clarinet 1-2 play a half note F#4. Bassoon is silent. Horns 1-2, Horns 3-4, Trumpets 1-2, Trombones 1-2, Baritone Trombone, and Tuba are silent. Timpani plays a half note G2. Violins 1 and 2 play a half note F#4. Viola plays a half note F#4. Violoncello and Double Bass play a half note F#4.

**Measure 11:** Flutes 1-2, Piccolo, Oboe, and Clarinet 1-2 play a half note F#4. Bassoon is silent. Horns 1-2, Horns 3-4, Trumpets 1-2, Trombones 1-2, Baritone Trombone, and Tuba are silent. Timpani plays a half note G2. Violins 1 and 2 play a triplet of eighth notes (F#4, G4, A4) followed by a half note G4. Viola plays a triplet of eighth notes (F#4, G4, A4) followed by a half note G4. Violoncello and Double Bass play a triplet of eighth notes (F#4, G4, A4) followed by a half note G4.

4

[illegible]

\* half of the players, as before

16

Fl. 1-2 *mf* *p*

Picc. *mf* *p*

Ob. *f* *p*

Cl. 1-2 *f* *p*

Cl. 3

Bsn. *f* *p*

Hn. 1-2 *mf* *p*

Hn. 3-4 *mf* *p*

Tpt. 1-2 *mf* *f* *mp*

Tbn. 1-2

B. Tbn.

Tba.

Timp. *f* *mp* *f* *p*

Vln. 1 *f* *p*

Vln. 2 *f* *p*

Vla. *f* *p*

Vc. *f* *p*

Db. *mf* *p* sul pont

6

19

Fl. 1-2

Picc.

Ob.

Cl. 1-2

Cl. 3

Bsn.

Hn. 1-2

Hn. 3-4

Tpt. 1-2

Tbn. 1-2

B. Tbn.

Tba.

Timp.

Vln. 1

Vln. 2

Vla.

Vc.

Db.

\* half of the players, as before





33

Fl. 1-2

Picc.

Ob.

Cl. 1-2

Cl. 3

Bsn.

Hn. 1-2

Hn. 3-4

Tpt. 1-2

Tbn. 1-2

B. Tbn.

Tba.

Timp.

Crot.

Vln. 1

Vln. 2

Vla.

Vc.

Db.

This musical score page contains measures 33 through 37. The instrumentation includes woodwinds (Flute 1-2, Piccolo, Oboe, Clarinet 1-2, Clarinet 3, Bassoon), brass (Horn 1-2, Horn 3-4, Trumpet 1-2, Trombone 1-2, Baritone Trombone, Tuba), percussion (Timpani, Crotales), and strings (Violin 1, Violin 2, Viola, Violoncello, Double Bass). Measures 33-34 show woodwinds and horns playing melodic lines with dynamics *p* and *mp*. Measure 35 features a crescendo leading to a *mf* dynamic. Measures 36-37 show the woodwinds and horns playing together, with the horns marked *mf* and the woodwinds *mf*. The string section remains silent throughout these measures.

38

Fl. 1-2

Picc.

Ob.

Cl. 1-2

Cl. 3

Bsn.

Hn. 1-2

Hn. 3-4

Tpt. 1-2

Tbn. 1-2

B. Tbn.

Tba.

Timp.

Crot.

Vln. 1

Vln. 2

Vla.

Vc.

Db.

*p*

*mf*

*f*

*mp*

*f*

*mp*

*f*

*mf*

*f*

1.

1.

norm. vib

3

3



42

Fl. 1-2

Picc.

Ob.

Cl. 1-2

Cl. 3

Bsn.

Hn. 1-2

Hn. 3-4

Tpt. 1-2

Tbn. 1-2

B. Tbn.

Tba.

Timp.

Vln. 1

Vln. 2

Vla.

Vc.

Db.

46

Fl. 1-2

Picc.

Ob.

Cl. 1-2

Cl. 3

Bsn.

Hn. 1-2

Hn. 3-4

Tpt. 1-2

Tbn. 1-2

B. Tbn.

Tba.

Timp.

Vln. 1

Vln. 2

Vla.

Vc.

Db.

*f*

*mf*

*mp*

1.

Measures 46-49 of the musical score. The score includes parts for Flute 1-2, Piccolo, Oboe, Clarinet 1-2, Clarinet 3, Bassoon, Horn 1-2, Horn 3-4, Trumpet 1-2, Trombone 1-2, Baritone Trombone, Tuba, Timpani, Violin 1, Violin 2, Viola, Violoncello, and Double Bass. Measures 46-49 show various melodic lines and dynamics. Flute 1-2 has a crescendo from *f* to *mf*. Bassoon has a crescendo from *f* to *mf*. Horn 1-2 has a crescendo from *f* to *mf*. Horn 3-4 has a crescendo from *mp* to *f* to *mf*. Trumpet 1-2 has a crescendo from *f* to *mf*. Violin 1 has a crescendo from *mf* to *f*. Violin 2 has a crescendo from *mf* to *f*. Viola has a crescendo from *mf* to *f*. Violoncello has a crescendo from *mf* to *f*. Double Bass has a crescendo from *mf* to *f*.

50

F

Fl. 1-2

Picc.

Ob.

Cl. 1-2

Cl. 3

Bsn.

Hn. 1-2

Hn. 3-4

Tpt. 1-2

Tbn. 1-2

B. Tbn.

Tba.

Timp.

1. solo

*mp*

*fp*

*f*

3

F

Vln. 1

Vln. 2

Vla.

Vc.

Db.

unis.

*f*

*mp*

*fp*

*f*

*mp*

54

Fl. 1-2

Picc.

Ob.

Cl. 1-2

Cl. 3

Bsn.

Hn. 1-2

Hn. 3-4

Tpt. 1-2

Tbn. 1-2

B. Tbn.

Tba.

Timp.

Vln. 1

Vln. 2

Vla.

Vc.

Db.

G

59

Vln. 1

*mf* *sub. p* 3 *mf*

Vln. 2

*mf* *sub. p* 3 *mf*

Vla.

*mf* *sub. p* 3 *mf*

Vc.

*mf* *sub. p* 3 *mf*

Db.



63

Vln. 1

*mp* 3 *mf* *mp* *p*

Vln. 2

*mp* 3 *mf* *mp* *p*

Vla.

*mp* 3 *mf* *mp* *p*

Vc.

*mp* 3 *mf* *mp* *p*

Db.



**H**

67

Vln. 1

*mf* *p*

Vln. 2

*mf* *p*

Vla.

*mf* *p*

Vc.

Db.

71

1. *pp* 2. *a 2*

Fl. 1-2 *mf*

Picc.

Ob. *pp* *mf*

Cl. 1-2 *a 2* *mp* 3 *mf*

Cl. 3 *p* *mf*

Bsn. 3 *pp* *mf*

Hn. 1-2 1. *p* 2. *mp* *a 2* *mf*

Hn. 3-4 3. *pp* 3 *mp* *a 2* *mf*

Tpt. 1-2 *a 2* *p* *mf*

Tbn. 1-2 1. *p* *a 2* *mp* *mf*

B. Tbn. *mf*

Tba. *mf*

Timp. no cymbal, ord timpani *mf*

**I**

Glock. *p* 3 *mp* 3 *mf*

Vln. 1 div. *pp* *mf*

Vln. 2 div. *pp* *p* 3 *mf*

Vla. *p* 3 *mf*

Vc. *p* *mf*

Vc. 3 *pp* *mf*

Db. *mf*

[illegible]

82

Fl. 1-2

Picc.

Ob.

Cl. 1-2

Cl. 3

Bsn.

Hn. 1-2

Hn. 3-4

Tpt. 1-2

Tbn. 1-2

B. Tbn.

Tba.

Timp.

Glock.

Vln. 1

Vln. 2

Vla.

Vc.

Vc.

Db.

83

84

85

86

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487

488

489

490

491

492

493

494

495

496

497

498

499

500

501





[illegible]

L

95

Fl. 1-2

Fl. 1-2

*f mp*

*p*

Picc.

Picc.

Ob.

Ob.

*f mp*

*p*

Cl. 1-2

Cl. 1-2

*mp*

*p*

Cl. 3

Cl. 3

*f mp*

Bsn.

Bsn.

*mp*

*p*

Hn. 1-2

Hn. 1-2

*f mp*

*p*

Hn. 3-4

Hn. 3-4

*f mp*

*p*

Tpt. 1-2

Tpt. 1-2

*mp*

*p*

Tbn. 1-2

Tbn. 1-2

*mp*

*p*

B. Tbn.

B. Tbn.

*mp*

*p*

Tba.

Tba.

*mp*

*p*

Timp.

Timp.

*mp*

*p*

L

Glock.

Glock.

*mp*

*p*

Vln. 1

Vln. 1

*mp*

unis. II

*p*

*mp*

*p*

Vln. 2

Vln. 2

*mp*

unis. II

*p*

*mp*

*p*

Vla.

Vla.

*mp*

II

*p*

*mp*

*p*

Vc.

Vc.

*mp*

*p*

Vc.

Vc.

*mp*

*p*

Db.

Db.

*mp*

100

Fl. 1-2

Picc.

Ob.

Cl. 1-2

Cl. 3

Bsn.

Hn. 1-2

Hn. 3-4

Tpt. 1-2

Tbn. 1-2

B. Tbn.

Tba.

Timp.

B. D.

Chim.

Vln. 1

Vln. 2

Vla.

Vc.

Vc.

Db.

[illegible]

[illegible]

108

Fl. 1-2

*f* *mp*

Picc.

*f* *mp*

Ob.

Cl. 1-2

*mf*

Cl. 3

Bsn.

*mf*

Hn. 1-2

*f*

Hn. 3-4

*f*

Tpt. 1-2

*f*

Tbn. 1-2

*f*

B. Tbn.

Tba.

*f*

Timp.

Vln. 1

*f* *mp*

Vln. 2

Vla.

Vc.

Db.

26

26

Fl. 1-2 *f* *mf*

Picc. *f* *mf*

Ob. *f* *mf*

Cl. 1-2 *f* *mf*

Cl. 3 *mf*

Bsn. *f* *mf*

Hn. 1-2 *f* *mf*

Hn. 3-4 *f* *mf*

Tpt. 1-2 *f* *mf*

Tbn. 1-2 *f* *mf*

B. Tbn. *f* *ff* *mf*

Tba. *f* *ff* *mf*

Timp.

Crot. with mallets

Chim.

Vln. 1 *f* *mf*

Vln. 2 *f* *mf*

Vla. *f* *mf* *f*

Vc. *f* *mf* *f*

Db. *f* *mf*







Fl. 1-2

119

Picc.

Ob.

Cl. 1-2

Cl. 3

Bsn.

Hn. 1-2

Hn. 3-4

Tpt. 1-2

Tbn. 1-2

B. Tbn.

Tba.

Timp.

B. D.

Chim.

Vln. 1

Vln. 2

Vla.

Vc.

Db.

[illegible]

Q

31

125

Fl. 1-2 *mp*

Picc. *mp*

Ob. *mp*

Cl. 1-2 *mp*

Cl. 3 *mp*

Bsn. *mp*

Hn. 1-2 *f*

Hn. 3-4 *f*

Tpt. 1-2 *f*

Tbn. 1-2 *f*

B. Tbn. *f*

Tba. *f*

Timp.

B. D. *f*

Crot. *f*

Chim. *f*

Q

Vln. 1 *f*

Vln. 2 *f*

Vla. *f*

Vc. *f*

Db. *f*

32 128

Fl. 1-2  
Picc.  
Ob.  
Cl. 1-2  
Cl. 3  
Bsn.  
Hn. 1-2  
Hn. 3-4  
Tpt. 1-2  
Tbn. 1-2  
B. Tbn.  
Tba.  
Timp.  
Crot.  
Chim.  
Vln. 1  
Vln. 2  
Vla.  
Vc.  
Db.

R

33

131

Fl. 1-2 *p*

Picc. *p*

Ob. *p*

Cl. 1-2 *p*

Cl. 3

Bsn. *p*

Hn. 1-2 *p*

Hn. 3-4 *p*

Tpt. 1-2

Tbn. 1-2

B. Tbn.

Tba. *p*

Timp.

B. D. *p* *mp* *p* *mp* *p* *mp*

Crot.

R

Vln. 1 *p* *pp* *p*

Vln. 2 *p* *pp* *p*

Vla. *p* *pp* *p*

Vc. *p* *pp* *p*

Db. *p* *mf* *p*

[illegible]



[illegible]

143

Fl. 1-2

Picc.

Ob.

Cl. 1-2

Cl. 3

Bsn.

Hn. 1-2

Hn. 3-4

Tpt. 1-2

Tbn. 1-2

B. Tbn.

Tba.

Timp.

*p* *mf* *sub. p* *mp*

1. 3

*p* *mf* *sub. p* *mp*

*p* *mf* *sub. p* *mp*

*p* *mf* *sub. p* *mp*

1. 3

*p* *mp*

*p* *mp*

*p* *mp*

*p* *mp*

[illegible]

[illegible]



155

Fl. 1-2  
Picc.  
Ob.  
Cl. 1-2  
Cl. 3  
Bsn.  
Hn. 1-2  
Hn. 3-4  
Tpt. 1-2  
Tbn. 1-2  
B. Tbn.  
Tba.  
Timp.  
B. D.  
Crot.

Glock.  
Vln. 1  
Vln. 2  
Vla.  
Vc.  
Db.

## Curriculum Vitae

**Name:** Carolann DeYoung

**Post-secondary Education and Degrees:** Acadia University  
Wolfville, Nova Scotia, Canada  
2007-2011 B.Mus.

The University of Western Ontario  
London, Ontario, Canada  
2011-2013 M.Mus.

**Honours and Awards:** Western Graduate Research Scholarship  
2011-2013

Jane MacIntyre & Jean P. Amy Memorial Award in Music  
2009

Minnie A. Poole Scholarship  
2009

E.A. Collins Award in Music Composition  
2008

Keith L. Mailman Scholarship in Music  
2007

**Related Work Experience** Teaching Assistant  
The University of Western Ontario  
2011-2013

Teaching Assistant  
Acadia University  
2010-2011